

LETTER OF TRANSMITTAL



HMB Professional Engineers, Inc.  
 3 HMB Circle, US 460  
 Frankfort, KY 40601  
 Phone: 502/695-9800  
 Fax: 502/695-9810

DATE	8/5/2014	JOB NO.	4178
ATTENTION	Linda Faulkner		
RE:	Case No. 2014-00265		
	Fleming County Water Association		

Public Service Commission  
 \_\_\_\_\_  
 211 Sower Blvd  
 \_\_\_\_\_  
 Frankfort, KY 40602  
 \_\_\_\_\_

WE ARE SENDING YOU  Attached  Under Separate Cover Via: \_\_\_\_\_ the following items:

Shop Drawings  Prints  Plans  Samples  Specifications

Copy of Letter  Change Order  \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
10			Preliminary Engineering Report

RECEIVED  
 AUG 6 2014  
 PUBLIC SERVICE  
 COMMISSION

THESE ARE TRANSMITTED as checked below:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> For Approval           | <input type="checkbox"/> Approved as Submitted            | <input type="checkbox"/> Approved as Submitted    |
| <input type="checkbox"/> For Your Use           | <input type="checkbox"/> Approved as Noted                | <input type="checkbox"/> Approved as Noted        |
| <input type="checkbox"/> As Requested           | <input type="checkbox"/> Returned for Corrections         | <input type="checkbox"/> Returned for Corrections |
| <input type="checkbox"/> For Review and Comment | <input type="checkbox"/> _____                            |   |
| <input type="checkbox"/> FOR BIDS DUE _____     | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US |   |

REMARKS

Ms. Faulkner  
 \_\_\_\_\_  
 Other items on the deficiency list will be submitted under different cover.  
 \_\_\_\_\_  
 \_\_\_\_\_

If you have any questions, please call.  
 \_\_\_\_\_

COPY TO \_\_\_\_\_

SIGNED: Jeff Reynolds, P.E.

*If enclosures are not as noted, kindly notify us at once*

RECEIVED

AUG 6 2014

PUBLIC SERVICE  
COMMISSION

**PRELIMINARY ENGINEERING REPORT**  
**2012 WATER LINE REPLACEMENT PROJECT**  
**FLEMING COUNTY WATER ASSOCIATION**  
**FLEMING COUNTY, KENTUCKY**



January 2012

Prepared By:



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## **INTRODUCTION**

The Fleming County Water Association (FCWA) is currently pursuing funding to upgrade approximately 41,000 l.f. of 6-inch A.C. water line to 8-inch PVC water line along several roads in rural Fleming County. It is estimated that the proposed project will have a construction cost of \$986,000 and a project cost of \$1,276,000. Proposed financing for this project shall be in the form of a Rural Development Loan and Grant.

## **NEED FOR PROJECT**

During the early years of the FCWA, a majority of the water lines constructed were made of asbestos cement (A.C.). Over time, these water lines have become more brittle and susceptible to leaking and breaks. As a result, the water loss and additional maintenance pose increase cost to the customers. These A.C. water lines are also considered a hazardous material that poses potential health hazards to the maintenance crew when repairing a leak.

## **PROPOSED PROJECT**

The FCWA proposes to upgrade approximately 41,000 l.f. of A.C. water line to PVC water line along the following roads in rural Fleming County: KY 32 Bus., KY 32 – Wallingford Road, KY 111 and McCann Road (Seacrest Crossing) (See Project Maps). This should eliminate most of the water leaks and breaks that the FCWA is currently experiencing in these areas. The use of PVC water line will also eliminate the potential health hazards associated with exposure to A.C. water line.

Also as part of this project, FCWA will be increasing the size of the water line from 6-inch to 8-inch. This should provide better service to the existing customers and provide capacity for future demand.

## **ESTIMATED CONSTRUCTION COST**

### **COST SUMMARY**

Tables 1 and 2 summarize the estimated construction cost and the project cost.



Water/Wastewater  
 Transportation  
 Engineers  
 Environmental

Project: \_\_\_\_\_  
 Date: 12/6/2011  
 Engineer: JR  
 Page: \_\_\_\_\_

**TABLE 1**  
**Construction Cost Estimate**  
**for**  
**2012 Water Line Replacement Project**  
**Fleming County Water Association**

Item	Quantity	Unit Price	Total
8" SDR-21 Water Line	41,000	\$20.00	\$820,000
14" Road Bore	470	\$100	\$47,000
8" Gate Valve	16	\$1,000	\$16,000
Connection of Exist. System	8	\$1,500	\$12,000
Reconnecting Existing Services	93	\$500	\$46,500
Fire Hydrant Reconnection	1	\$2,500	\$2,500
Creek Crossing	260	\$40	\$10,400
Crushed Stone	1,350	\$10	\$13,500
Bit. Replacement	450	\$40	\$18,000
Total Estimated Construction Cost			\$985,900
<b>USE</b>			<b>\$986,000</b>



Water/Wastewater  
 Transportation  
 Engineers  
 Environmental

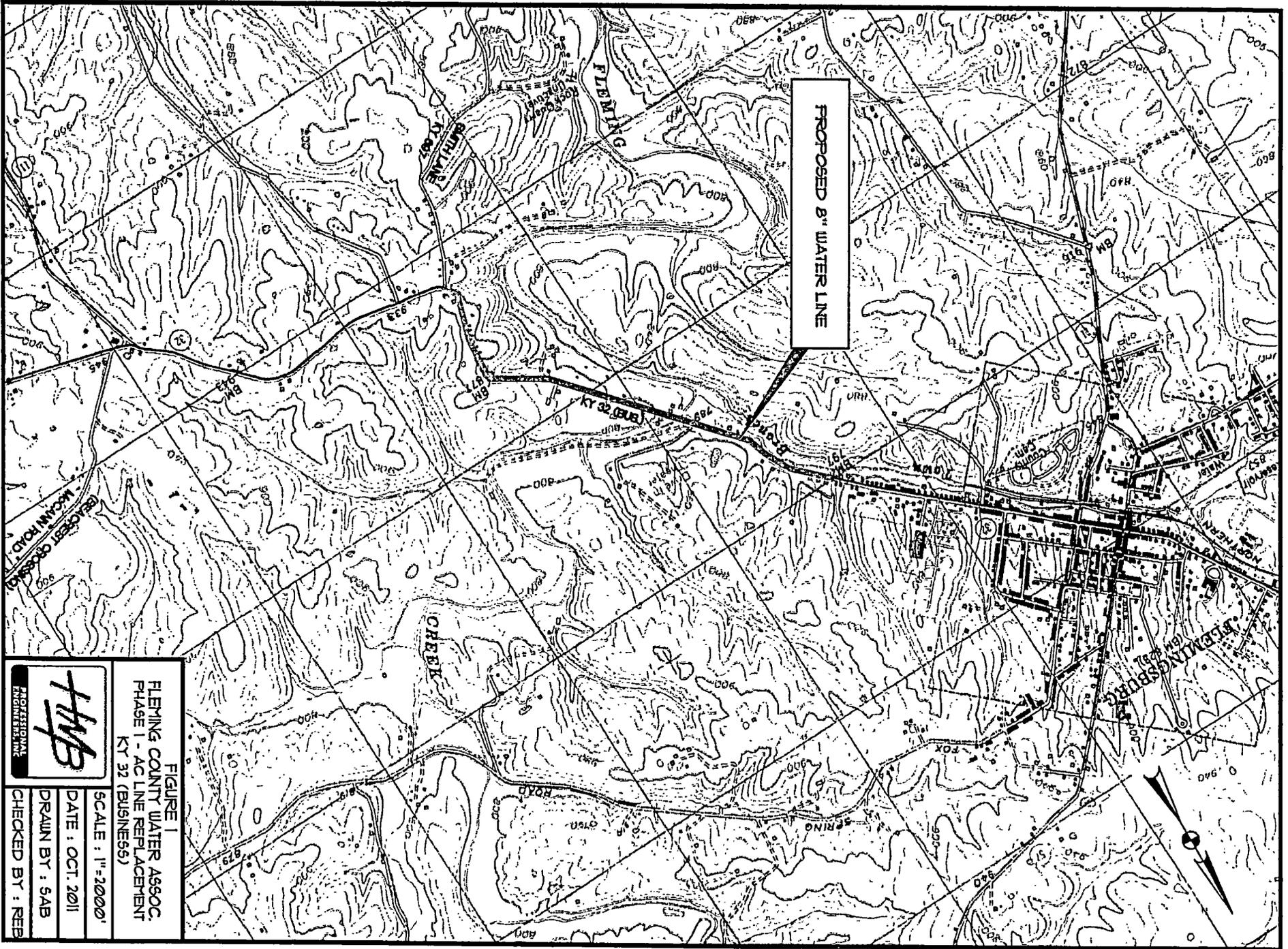
Project: \_\_\_\_\_  
 Date: 12/6/2011  
 Engineer: JR  
 Page: \_\_\_\_\_

**TABLE 2**  
**Project Cost Estimate**  
**for**  
**2012 Water Line Replacement Project**  
**Fleming County Water Association**

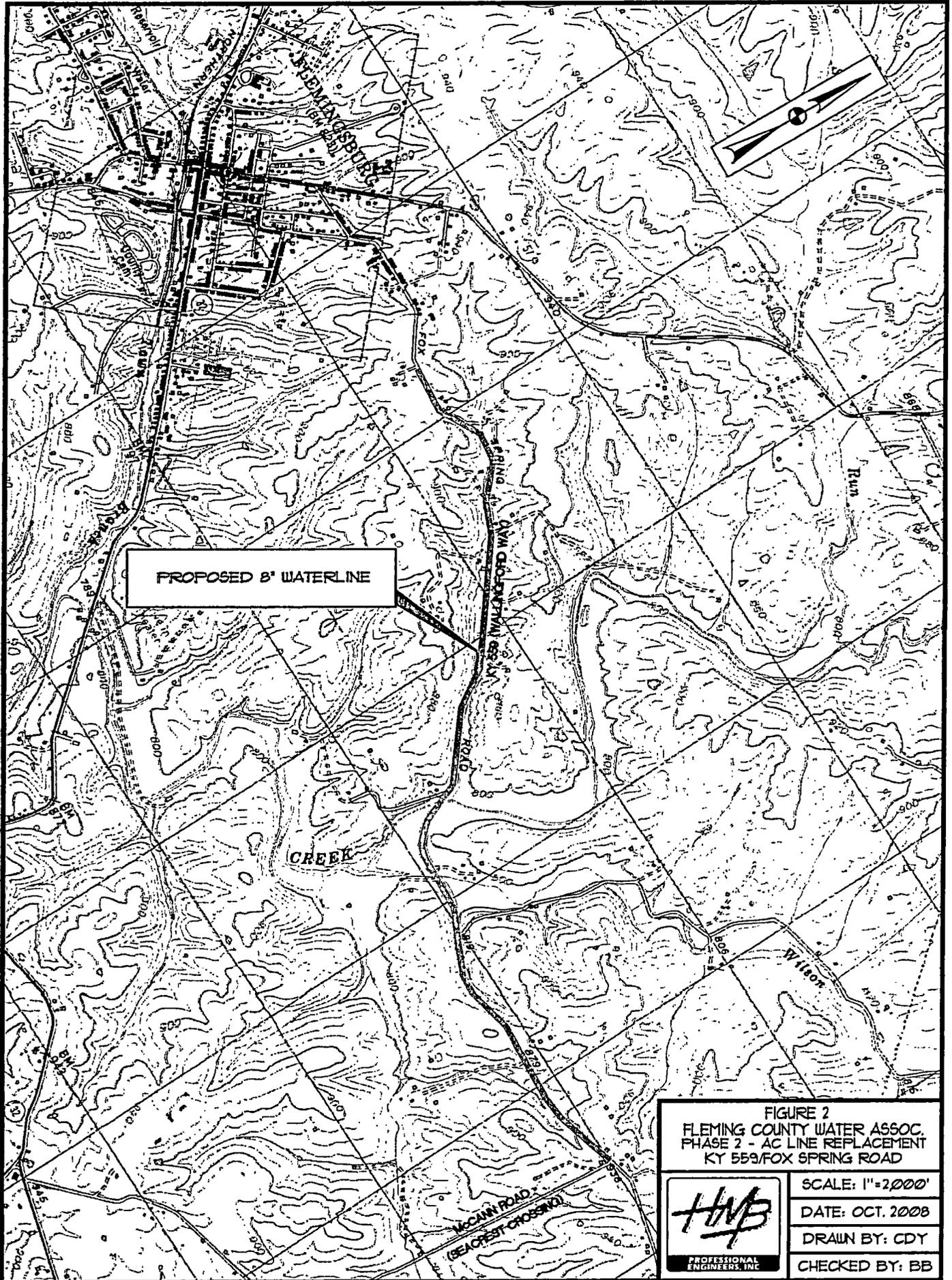
Construction Cost		\$986,000
Engineering		\$161,000
	Preliminary	\$15,000
	Design/Bid/CA	\$88,000
	Inspection	\$56,000
	Additional Services	\$2,000
Legal/Administration		\$10,000
Land/Rights		\$5,000
Interest During Construction		\$15,000
Contingencies		\$99,000
		\$99,000
<b>Total Estimated Project Cost</b>		<b>\$1,276,000</b>



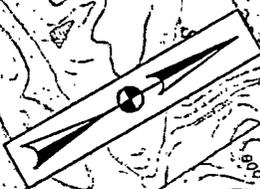
APPENDIX A  
PROJECT MAPS



 PROFESSIONAL ENGINEERING	FIGURE 1
	FLEMING COUNTY WATER ASSOC. PHASE I - AC LINE REPLACEMENT KY 32 (BUSINESS)
SCALE : 1" = 2000'	
DATE : OCT. 2011	
DRAWN BY : SAB	
CHECKED BY : REB	



PROPOSED 8" WATERLINE



**FIGURE 2**  
**FLEMING COUNTY WATER ASSOC.**  
**PHASE 2 - AC LINE REPLACEMENT**  
**KY 559/FOX SPRING ROAD**

**SCALE: 1"=2,000'**  
**DATE: OCT. 2008**  
**DRAWN BY: CDY**  
**CHECKED BY: BB**

**HMB**  
**PROFESSIONAL ENGINEERS, INC.**

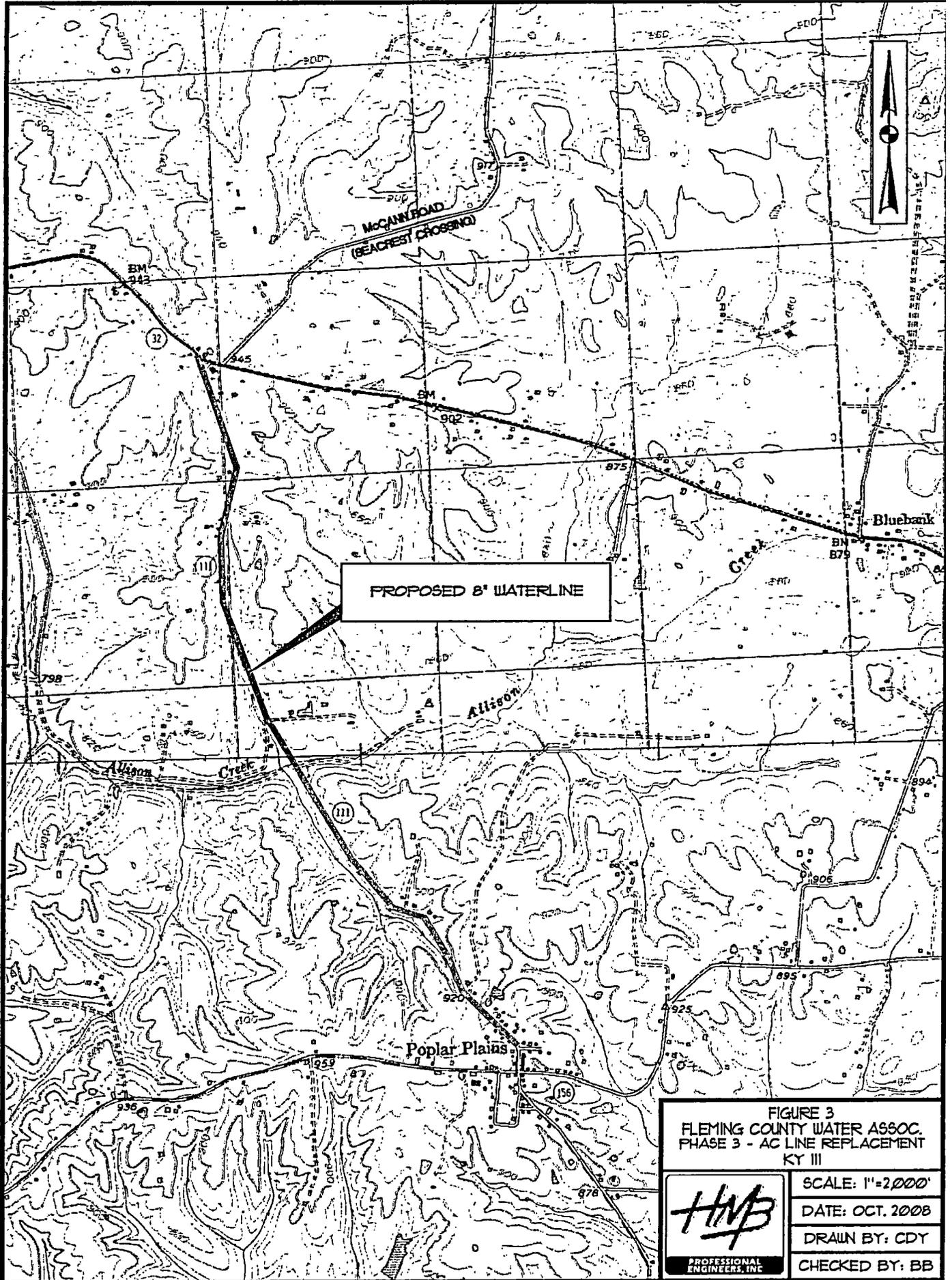
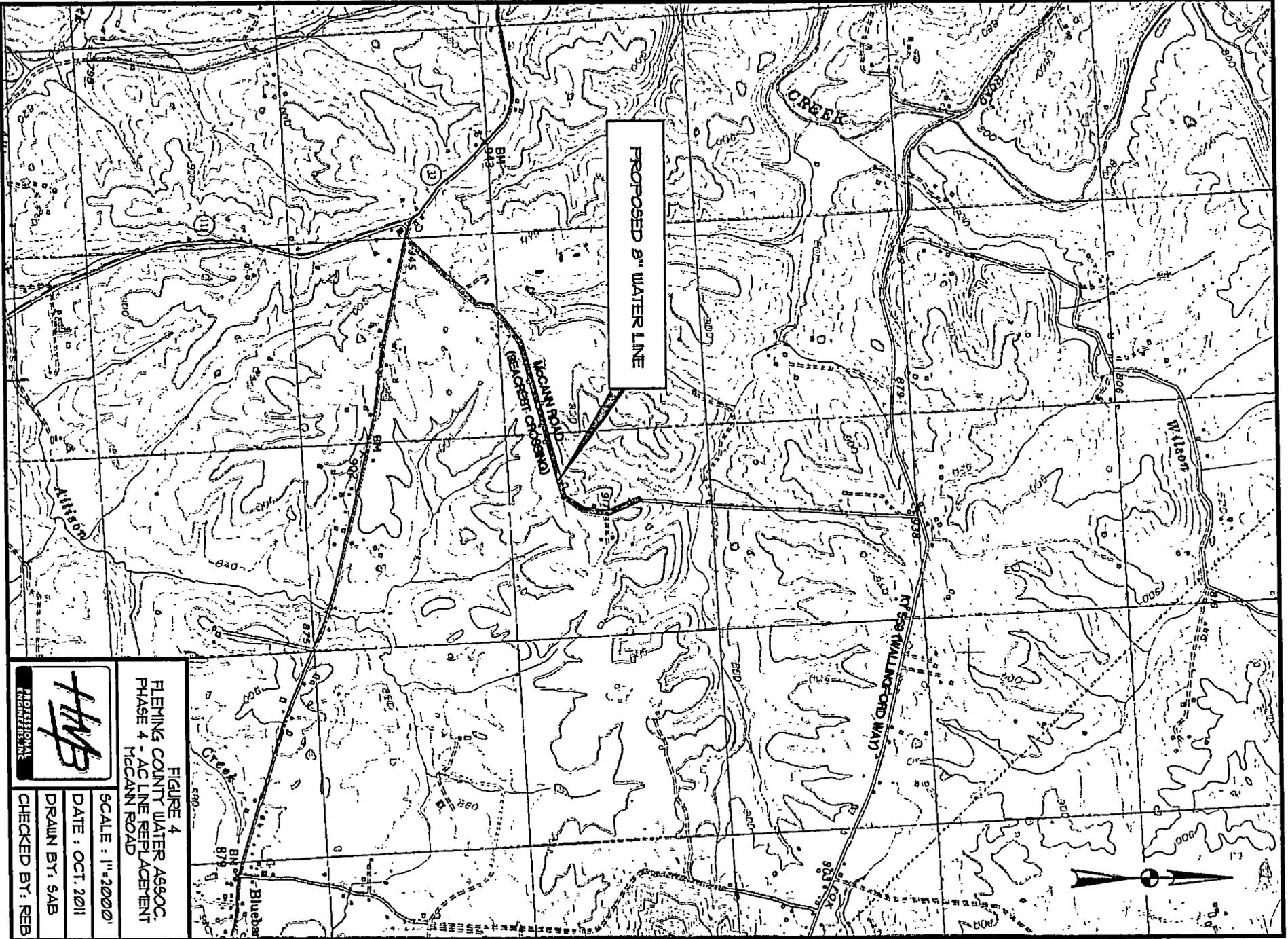


FIGURE 3  
 FLEMING COUNTY WATER ASSOC.  
 PHASE 3 - AC LINE REPLACEMENT  
 KY III

	SCALE: 1"=2,000'
	DATE: OCT. 2008
	DRAWN BY: CDY
	CHECKED BY: BB



PROPOSED 8" WATER LINE

FIGURE 4  
FLEMING COUNTY WATER ASSOC.  
PHASE 4 - AC LINE REPLACEMENT  
MCCANN ROAD

SCALE : 1"=2000'
DATE : OCT. 2011
DRAWN BY: SAB
CHECKED BY: REB